\*86334\*

Page 1

June-27-12 1:29:09 PM Item ID: D209-669-043 Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Replacement Skidtube **Start Date:** 27/06/2012 Start Oty: 1.00 **Cust Item ID: Required Date:** 11/07/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: \_M( 5 Approvals: Date: 17/06 27 Tooling: Date: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Reject Tool # Plan Accept Reject Insp. Work Center ID Description **Run Hours** Qty Code **Qty** Number Stamp **Draw Nbr Revision Nbr** D2906 Rev B (DEO) 100 0.00 DOCUMENT CONTROL \*100\* 0.00 Memo Document Control Photocopy D209-669 bluefile & type labels per PPP D205-669-043 Chg 003 110 0.00 Skidtubes \*110\* Skidtubes 0.00 Memo Skidtubes - Inspect mat'l D2500-1-190 for damage -Drill pilot holes using drill jig DT8149, DT8711-2 & DT8711-3 (Do not use cutting fluid) 25 12-06-27. 26 12-6-28 -Open holes to 0.500" as per Dwg D2906 without cutting fluid -Deburr and blow out all chips from -Acid etch and Alodine tube per QSI 005 4.1

<b>Dart Aerospace</b>	Ltd
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Work Order ID 86334 June-27-12 1:29:09 PM Item ID: D209-669-043 Accept \*N900040100\* **Revision ID:** Item Name: Replacement Skidtube **Start Date:** 27/06/2012 Start Qty: 1.00 **Cust Item ID: Required Date:** 11/07/2012 Req'd Qty: 1.00 **Customer:** Reference: **Approvals:** Process Plan: Date: Tooling: Date: Date:\_\_\_\_\_ QC: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Work Center ID Description Run Hours Code Qty 120 QC3- Inspect Part Finish 0.00 \*120\* 0.00 Memo Quality Control 130 0.00 Skidtubes \*130\* Skidtubes 0.00 Memo Skidtubes -Bond web in place per QSI 015. Allow 12 Hrs. cure time before cutting Qty Part Number Description\_Batch A/R Sikaflex-291 Sikaflex expire date: 13

description

Web

Start Time: 9ho Daté:

D2926-3

Fin Time: pick: Qty

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Page 3 June-27-12 1:29:09 PM Item ID: D209-669-043 Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Replacement Skidtube **Start Date:** 27/06/2012 Start Oty: 1.00 Cust Item ID: **Required Date:** 11/07/2012 **Reg'd Oty:** 1.00 **Customer:** Reference: Run Process Plan: **Approvals:** Date: **Tooling:** Date: Stop Date:\_\_\_\_\_ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ **Tool ID** Reject Tool # Plan Accept Reject Insp. **Work Center ID** Description **Run Hours** Code Qty Qty Number Stamp 0.00 BENDING MACHINE - CROSSTUBES 0.00 Memo DC 12/67/05 Delta 100 Bender 1-Bend as per program COB43FWD & COBRAFT on CNC Bender and Folio FT 2-Cut tubes as per Dwg. D2906 150 0.00 Skidtubes \*150\* Skidtubes 0.00 Memo Skidtubes -Deburr ends and remove markes from bending De 12/07/09 - Insert D4202-1 spacer, swage as per QSI002 and trim/ grind flush per QSI002 and dwg. Hold x-bolt with DT9701 Use tube expander 1/2 x17G to start expantion and finish with 1/2 x 18G to achieve dwg dimention. 160 QC5- Inspect part completeness to step on W/O 0.00

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Page 4

June-27-12 1:2	9:09 PM					On.	1.14							Page 4	
Item ID: Revision ID:	D209-669-0	43			<b>A</b>	ccept	*N90	0040	1100	)*	Setup	Start	*N	S1*	==
Item Name:	Replacement	Skidtube										Stop	*N	S2*	
Start Date: Required Date:	27/06/2012 11/07/2012	Start Qt Req'd Q	,		*1* *1*		Cust Iten Custome						1 4		
Reference:				_											
Approvals:	Process Pla	n:		Date:		Tooling:		Date:			Run	Start	*N	R1*	
	QC:			Date:_		SPC (Y/N):		Date:				Stop	*N	R2*	
Sequence ID/ Work Center II	D	Operation Description				Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	t Re Qty		Reject Number	Insp. Stamp	
*170* Skidtubes		Large Fab	Memo			0.00						S	AD	W-07	٥
Skidtubes				or wearplate b.Deburr	es using DT8217 (	Open holes to 19/64",	adjust stopper								
			-Drill pilot he	oles for aft d	k fwd cap using E	OT8215 open holes	to #6" Deburr								
			-Drill pilot h	oles for Tow	ring using DT95	55 , open to .640"a	and Deburr	·							
190		QC5- Inspec	t part comple	eteness to ste	ep on W/O	0.00	1.								
*190* QC Quality Control			Memo			0.00	rolog				-				

Dart Aerosp	pace Ltd
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FINISH TIME:

QC3- Inspect Part Finish

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Quality Control

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Page 5

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Revision ID:	D209-669-04	43		Accept	*N900	<u>0401</u>	<b>00</b> *	Setup	Start	*N:	<b>S1</b> *
Item Name:	Replacement !	Skidtube							Stop	*N.S	32*
Start Date:	27/06/2012	Start Qty: 1.00	*1*		Cust Item I	D:					
Required Date:	: 11/07/2012	<b>Req'd Qty:</b> 1.00	*1*		Customer:						
Reference:			_								
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:	_	Run	Start	*NF	₹1*
	QC:		_ Date:	SPC (Y/N):	D	ate:			Stop	*NF	₹2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID		Plan Acc	-	~	-	Insp. Stamp
230				0.00							
*230* HandFinish		HandFinishing  Memo		0.00			-1-			D(	2/07/01/
Hand Finishing		1-Install ins	erts & wearplates as per D	wg. D2906. Use a drop of	Sikaflex on						

Sikaflex expire date: 14/03

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2906

3-Inspect for foreign object per QSI 024

insert holes before installing wearplates A/R Sikaflex-291 171130

4-Install D2855 Fwd & Aft Cap as per Dwg D2906 and seal Fwd & Aft Cap with Sikaflex. Clean excess adhesive A/R Sikaflex-291 121130 Sikaflex expire date: 14/03

5-Wing Walk as per Dwg D2906 and QSI 005 4.4 Batch: <u>| 122320</u>

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Work Order ID: 86334

\*86334\*

D209-669-043 Parent Item:

\*D209-669-043\*

Parent Item Name:

Replacement Skidtube

**Start Date: 27/06/2012** 

Required Date: 11/07/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

**Comments:** 

new IPP 08.02.13 LL, verified by: DD

IPP Rev:B remove DT # in seq140 DD 10.03 10 Verified by: EC

	IPP Rev:B remove	DT # in seq140	DD 10	.03.10 Verifi	ed by:EC								
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4202-1		Manufactured	No			•	Each	224.0000		19			
*D4202-13 Spacer	*			<u>Location</u> LG LG002	77727 83263	Loc	Otv 184 5 179 40	Loc Code	**		12 /07/6 - -	9	
					78806 79810		6 34		_		_		
D2500-1-190		Manufactured	No			110	Each	49.0000	1	1	_		
*D2500-1- Ext'n - I' Beam Tube 4"	-190*								**	St	10 _/	206	5-25
				Location	1	Loc	<u>Qty</u>	Loc Code					
				HALL	74777 80061		49 10 39		_	Î			
D2926-3		Manufactured	No			110	Each	12.0000	1	1			
*D2926-3*	k								**	SA	D/	2.0.	>04
2				Location	1	Loc	<u>Otv</u>	Loc Code					-
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					84949		6		_		_		
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Work Order ID: 86334

\*86334\*

D209-669-043

\*D209-669-043\*

Parent Item:

Parent Item Name: Replacement Skidtube

Start Qty: 1.00

**Start Date: 27/06/2012** 

**Required Date:** 11/07/2012

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Required Qty: 1.00

D2855

Manufactured No 230

Loc Qtv

19

2

14

3

19.0000

Each

\*D2855\*

Cap

Location FP002 65519 73347 75074 Loc Code

AN3-5A

Purchased

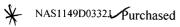
Each 808.0000 \*\*

12/07/11

\*AN3-5A\*

Location .		Loc Qty	Loc Code
ST350		808	
11537	1	46	
11742	3	124	
11935	5	200	
12018	7	432	
12118	5	6	
	230	Eacl	h 0.0000

230



No

No

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12/07/4

\*AN960.ID101 \*

Washer

121 011

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### **Picklist Print**

June-27-12 1:29:14 PM

Work Order ID: 86334 \*86334\* Parent Item: D209-669-043 \*D209-669-043\* Parent Item Name: Replacement Skidtube **Start Date: 27/06/2012 Required Date:** 11/07/2012 Start Qty: 1.00 Required Qty: 1.00 ALS7-1032-130 Purchased No 230 Each 1.998.000 44 \*ALS7-1032-130\* \*\* 12/07/11 Insert Location Loc Qty Loc Code ST280 51 117717 27 118966 22 119775 2 ST282 1947 119530 73 120181 12 121444 1862 AN3C4A Purchased No 230 Each 4,780.000 44 \*AN3C4A\* D 12/07/11 \*\* BOLT Location Loc Qty Loc Code ST350 4780 120187 31 120521 28 120769 38 121205 675 121556 8 122151 4000 NAS1149C0332 Purchased AN960C10L No 230 Each 21.0000 \*AN960C10I \* \*\* 12/02/11 washer

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Work Order ID: 86334

\*86334\* D209-669-043

Parent Item Name: Replacement Skidtube

\*D209-669-043\*

Start Date: 27/06/2012

**Required Date:** 11/07/2012

Start Qty: 1.00

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14

Required Qty: 1.00

D2594-3

Parent Item:

\*D2594-3\*

O-Ring, 205 Skidtube

Manufactured

230

Each

2,396.000

14

14 @ 12/67/11

Location	Loc Qt	¥	Loc Code
FP001	23	96	
65518		41	
79496	9	84	
79573 79755		50	
79755	13	21	
	220	Cook	600,0000

D2594-1

\*D2594-1\*

Plug, 205 Skidtube

Manufactured

230 Each

699.0000

14

Location	Loc Qty	Loc Code
FP001	84	
73401	30	
74442	6	
79495	48	
FP-A	615	
73401	0	
78590	205	
84951 🗸	410	

D3564-9

\*D3564-9\*

Wearshoe

Manufactured No

410 230 Each

41.0000

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Location		Loc Oty	Loc Code
FG		4	
•	76950	4	_
FP001		37	
(	67590	4	_
(	69943	1	_
	82255	7	
8	84870 🗸	25	

Dart Aerospace	<b>Ltd</b>
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### **Picklist Print**

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Work Order ID: 86334

Parent Item:

D209-669-043

Parent Item Name: Replacement Skidtube

\*86334\* \*D209-669-043\*

Start Date: 27/06/2012

**Required Date: 11/07/2012** 

Start Qty: 1.00

Required Qty: 1.00

\*D3564-11\*

D3564-11

.Manufactured

Manufactured

230

Each

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39.0000

Loc Code

61.0000

Q 12/07/U

Location Loc Qty FG 77056 5 FP001 34 83910 22 84871 12 230 Each

D3564-5

\*D3564-5\*

Wearshoe

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12/07/11

Location Loc Qty Loc Code FG 34806 2 FP001 59 77609 80343 82254 84869 🗸 25 85475 24 230

D3566-1

Gasket

Manufactured

Each

72

94.0000

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Location Loc Qty Loc Code FP -32 FP002 126 68924 80919 2 81619 3 83898 15

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\*D3566-1\*

**Shop Packet Print** 

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Page 5

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### **Picklist Print**

June-27-12 1:29:15 PM

Work Order ID: 86334

Parent Item:

D209-669-043

Parent Item Name: Replacement Skidtube

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No

\*D209-669-043\*

**Start Date: 27/06/2012** 

**Required Date: 11/07/2012** 

Page 6

Start Qty: 1.00

Required Qty: 1.00

D3566-5

Manufactured

230

Each

52.0000

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\*D3566-5\*

Gasket

Locatio	<u>n</u>	Loc Qty	Loc Code	
FP		10		
	82275	10		
FP002		42		
	80374	3		
	82274	6		
	84881	33		

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Description	SKIDTUBE ASSEMBLY	SKIDTUBE ASSEMBLY		EXTRUSION	CROSS BOLT SPACER	PLUG	O-RING	AFT CAP	WEB	WEB	WEARSHOE (REPLACES D2577-1)	WEARSHOE (REPLACES D2577-3)	WEARSHOE (REPLACES D2577-5)	WEARSHOE	GASKET	GASKET	GASKET		INSERT			ŀ	BULI	BOLT	WASHER	WASHER
Part Number	D2906-041	D2906-043		D2500-1-190	D2579	D2594-1	D2594-3	D2855	D2926-1	D2926-3	D3564-9	D3564-11	D3564-5	D3564-15	D3566-1	D3566-5	D3566-15		ALS7-1032-130	or AKS7-1032-130	or AKS4-1032-130	Of ALS4-1052-150	ANGCAA	AN3-5A	AN960C10L	AN960JD10L
QTY -043		×		1	19	14	14	2		1	1	1	1		2	1			44			,	#	4	4	4
Q. ₹	×			-	22	12	12	2	1		1	1	+	-	2	1	-		တ		-	5	3	4	20	4

# **GENERAL NOTES**

- **700**

SHOPCOPY RETURN TO **ENGINEERING UNCONTROLLED COPY** 

SUBJECT TO AMENDMENT WITHOUT NOTICE

- 4
- S)
- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
  2) LENGTH OF D2500-1 EXTRUSION BEFORE BENDING = 190 INCHES.
  3) INSERT D2926-1/-3 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/291
  ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
  4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF SO AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
  5) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF SO AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
  6) USE DART DRILL TEMPLATE DT2906-04171 (D2906-04371 (D2906-04371 (D2906-0437) OR D12906-04371 (D2906-043) OR D12906-04371 (D2906-043) OR D12906-04371 (D2906-0437) OR D12906-04371 (D2906-0437) OR D12906-04371 (D2906-0437) OR D12906-04371 OR D12906-04371 (D2906-0437) OR D12906-04371 6

12/06/27

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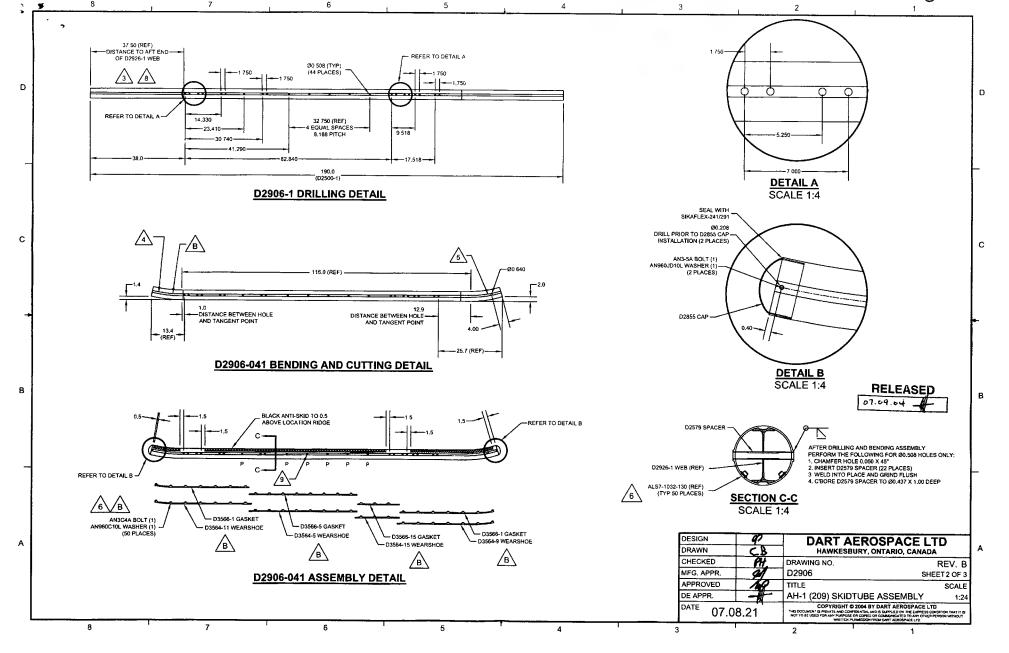
ACID ETCH, ALODINE PER DART QSI 005 4.1 PRIOR TO INSERTING D2926-1/-3 WEB. POWDER COAT ASSEMBLY WHITE (REF 4.3.5.1) PER DART QSI 005 4.3 BLACK ANTI-SKID PAINT AS INDICATED PER DART QSI 005 4.4 INSERT D2594-1 PLUG CW D2594.3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (12 PLACES).

110	BOSBACE	COPVEIGHT @ 2004 BY DABT AEDOCEDACE I TO	-		1
NTS	MBLY	AH-1 (209) SKIDTUBE ASSEMBLY	P	نہ	DE APPR.
SCALE		TITLE	149	ÆD	APPROVED
SHEET 1 OF 3	(I)	D2906	[B	PR.	MFG. APPR.
REV. B		DRAWING NO.	HB	Q:	CHECKED
DA I	O, CANA	HAWKESBURY, ONTARIO, CANADA	CB		DRAWN
LTD	ACE	DART AEROSPACE LTD	cb		DESIGN
DATE	ВУ	DESCRIPTION	O		REV.
04.06.22	g		SSUE	NEW ISSUE	٧
		PG 3 C3: CORRECTED -043 CAP P/N; PG 3 D7: 38 PLACES WAS 44 PLACES;	3: CORRECTE! 7: 38 PLACES \	PG3C PG3D	
		PG 2 C7: REMOVE AFT Ø0.640 HOLE FROM -041;	7: REMOVE AF	PG2C	
07.08.21	CB		PG 1: ADD NOTE 10;	PG 1: /	ω
		CHANGE WEARPLATE HARDWARE TO SS:	SE WEARPLAT	CHANG	
		ADD STAINLESS STEEL WEARPLATES AND GASKETS	TAINLESS STE	ADD S	
		UPDATE DRAWING FORMAT: RE-ORGANIZE:	'E DRAWING FI	UPDA1	

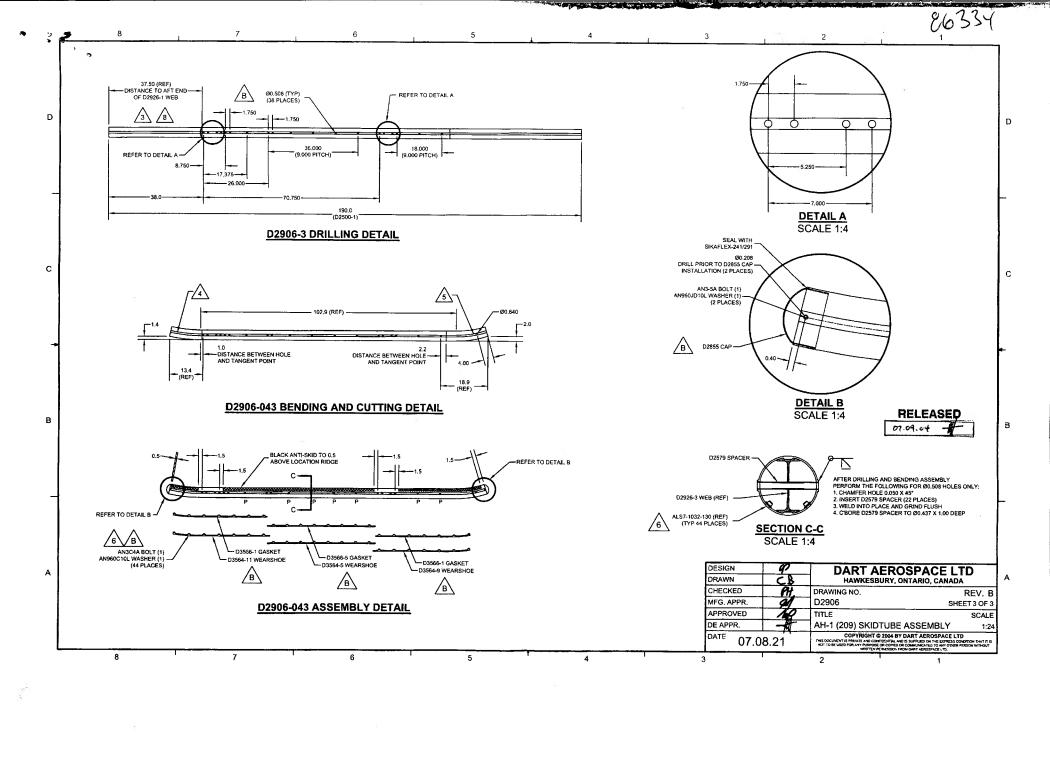
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RELEASE 40.50.00

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Part No	•	PAR #:	Fault Cate	gory:	NCR:	Yes N	o DQ	<b>A:</b>	Date:	
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DATE	STEP	Description of NC Section A	Initial	Corrective Action Sec Action Description	ction B	Sign &	Verific Secti		Approval Chief Eng	Approval QC Inspector
		333,3,7,7	Chief Eng	Chief Eng		Date	00011		Gillor Ellig	QG moposio.
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No <b>DQ</b>	<b>A</b> :	_ Date: _	
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NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCF	<b>?</b> )			
DATE	STEP	Description of NC		Corrective Action Section			cation	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	* Sect	ion C	Chief Eng	QC Inspector
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Dart Aerospace Ltd
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W/O:		WORK ORDER CHA	ANGES		·		•
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No:	PAR #: Fault C	ategory:NCR: Yes	s No DQA:	Date:
Resolution:	Disposi	ition: QA: N/C (	Closed:	Date:

NCR:			WORK ORDE	ER NON-CONFORMANO	CE (NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto
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	-							

DRAWING NO.	TITLE REV. E	DART AEROSPACE L	TD D.E.O. NO.	SHEET NO.	SCALE
D2906	AH-1 (209) SKIDTUBE ASSEMBLY	ENGINEERING ORDE	<b>R</b> D2906-B-1	SHEET 1 OF 1	NTS
DRAWN A.P	CHECKED +	MFG. APPR.	APPROVED A	DE APPR.	
DATE 12.05	.28 DATE 12.05. Z8	DATE /2.05.3(	DATE /2-05-3/	DATE 12.05.3	1

### **PURPOSE:**

CHANGE ALL C'BORED WELDED CROSSBOLT SPACERS TO SWAGED SPACERS

### CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

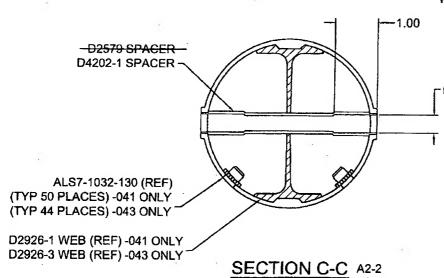
### WAS

QTY -041		PART NUMBERS	DESCRIPTION
22	19	D2579	CROSS BOLT SPACER

IS

			T
22	19	D4202-1	SPACER

SECTION C-C ON SHEETS 2 & 3 ARE AMENDED AS FOLLOWS FOR ALL HOLES THAT WERE ORIGINALLY C'BORED:



RELEASED 2012 -06- 05

Ø0.437 SWAGE

AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:

- -1. CHAMFER HOLE 0.050 X 45°-
- -2. INSERT-D2579 SPACER (20 PLACES)
- -3. WELD INTO PLACE AND GRIND FLUSH-
- 4. C'BORE D2579 SPACER TO Ø0.437 X 1.00 DEEP
- 1. INSERT D4202-1 SPACER, 22 PL (-041) OR 19 PL (-043)
- 2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
- 3. TRIM / GRIND FLUSH PER QSI 002

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TO BE USED FOR ANY PURPOSE OR CORPED ON COMMUNICATED TO MY OTHER PERSON WITHOUT

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Part No	.•	DAR #-	Fault Category:	NCD: Voc	No DO	۸.	Dato	

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Resolution:	Disposition:	QA: N/C Closed: _	Date:

	WORK ORDER NON-CONFORMANCE (NCR)							
STEP	Description of NC	Corrective Action Section B			Varification	Anneous	Annroyal	
	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector	
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